

## Listing of Claims

---

1. (Previously Amended) In combination:  
a central maintenance computer system; and,  
an onboard maintenance terminal;  
said onboard maintenance terminal linking faults to maintenance documentation;  
said onboard maintenance terminal further linking flight deck effect (FDE) engine  
indication crew alerting system, (EICAS) messages to the aircraft fault isolation manual, (FIM)  
troubleshooting procedures; and,  
said onboard maintenance terminal further functioning to provide air/ground simulation  
capabilities; and air data computer (ADC) simulation capabilities.
2. (Previously Amended) The method of operating an onboard maintenance  
terminal for an aircraft comprising the steps of:  
selecting a real time highlighted central maintenance computer (CMC) fault or flight deck  
effect (FDE) being displayed on the (CMC) maintenance terminal menus; and,  
obtaining a display of the aircraft fault isolation manual (FIM) troubleshooting procedure  
for the (CMC) fault or flight deck effect (FDE) indication.
3. (Previously Added) A method for providing airline mechanics with an electronic  
maintenance terminal (MT) for displaying real time central maintenance computer (CMC) data  
screens including the steps of:  
providing said airline mechanics with access to fault isolation manual (FIM)  
troubleshooting procedures via an internal software hot link between the (CMC) fault code and  
the (FIM) procedure wherein (FIM) data is a subset of an electronic portable maintenance aid  
(PMA) data; and  
further linking a flight deck effect (FDE) engine indication crew alerting system (EICAS)  
messages to (FIM) troubleshooting procedures.

4. (Withdrawn) An integrated onboard maintenance documentation system having a central maintenance computer (CMC);

storing hyperlinked documentation;

means for automatically linking a real time diagnostic central maintenance computer (CMC) fault or a flight deck effect (FDE) engine indication crew alerting system (EICAS) message directly into said onboard maintenance documentation by actuating a real time highlighted (CMC) fault or (EICAS) message on a real time (CMC) display thereby causing fault isolation documentation to be displayed which is a segment of said hyperlinked documentation.

5. (Previously Added) An electronic maintenance terminal (MT) display for displaying real time central maintenance computer (CMC) data screens and providing a mechanic with access to aircraft maintenance manual fault isolation manual (FIM) troubleshooting procedure via an internal software hot link between CMC fault code and FIM troubleshooting procedure.

6. (Previously Added) An integrated onboard maintenance documentation system including the steps of:

providing a cursor control device on an aircraft mounted maintenance terminal (MT);

selecting a real time highlighted central maintenance computer (CMC) fault or flight deck effect (FDE) displayed on the (MT) and obtaining an immediate display of the aircraft maintenance manual fault isolation manual (FIM) troubleshooting procedure for the fault or flight deck effect (FDE) indication.

7. (Previously Added) The method of claim 6 including the step of:

sending the troubleshooting procedure to an onboard printer or accessing additional maintenance information and procedures from portable maintenance aid (PMA) data links within the PMA data.

8. (Previously Added) An aircraft having an onboard diagnostics system, comprising:

a central maintenance computer system for collecting fault information about the aircraft;  
a fixed display terminal on which the fault information is displayed in real time;  
a cursor device for selecting a single fault information item; and,  
a computer file of a troubleshooting procedure that corresponds to the fault information item that is displayed on the fixed display terminal in a readable format upon selection of the fault information item by the cursor device.

*Amended*

9. (Previously Added) In combination:  
an aircraft mounted maintenance terminal (MT);  
a central maintenance computer (CMC);  
a (CMC) screen display on said (MT); and  
means for clicking a highlighted (CMC) fault message number on said (CMC) screen  
thereby providing immediate access to troubleshooting procedure via a real time link.

10. (Previously Added) An aircraft mounted maintenance terminal (MT) comprising in combination:

a display;  
a cursor control device;  
a keyboard;  
an internal hard drive;  
a floppy diskette drive;  
a CD-ROM drive;  
interfaces with ARINC 429 buses;  
interfaces for brightness and contrast control; and,  
a graphical output printer bus.

---